SEOUENCE LISTING

SEQ ID NO:1

human CNG3B amino acid sequence

- MFKSLTKVNKVKPIGENNENEQSSRRNEEGSHPSNQSQQTTAQEENKGEEKSLKTKSTPVTS 5 EEPHTNIQDKLSKKNSSGDLTTNPDPQNAAEPTGTVPEQKEMDPGKEGPNSPQNKPPAAPVI NEYADAQLHNLVKRMRQRTALYKKKLVEGDLSSPEASPQTAKPTAVPPVKESDDKPTEHYYR LLWFKVKKMPLTEYLKRIKLPNSIDSYTDRLYLLWLLLVTLAYNWNCWFIPLRLVFPYQTAD NIHYWLIADIICDIIYLYDMLFIQPRLQFVRGGDIIVDSNELRKHYRTSTKFQLDVASIIPF DICYLFFGFNPMFRANRMLKYTSFFEFNHHLESIMDKAYIYRVIRTTGYLLFILHINACVYY 10 WASNYEGIGTTRWVYDGEGNEYLRCYYWAVRTLITIGGLPEPQTLFEIVFQLLNFFSGVFVF SSLIGQMRDVIGAATANQNYFRACMDDTIAYMNNYSIPKLVQKRVRTWYEYTWDSQRMLDES DLLKTLPTTVQLALAIDVNFSIISKVDLFKGCDTQMIYDMLLRLKSVLYLPGDFVCKKGEIG KEMYIIKHGEVQVLGGPDGTKVLVTLKAGSVFGEISLLAAGGGNRRTANVVAHGFANLLTLD KKTLQEILVHYPDSERILMKKARVLLKQKAKTAEATPPRKDLALLFPPKEETPKLFKTLLGG 15 TGKASLARLLKLKREQAAQKKENSEGGEEEGKENEDKQKENEDKQKENEDKGKENEDKDKGR EPEEKPLDRPECTASPIAVEEEPHSVRRTVLPRGTSRQSLIISMAPSAEGGEEVLTIEVKEK
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complete human CNG3B nucleotide sequence

CATTTCTCTACCTTAAGGCACAGTCATAAATACAGAGGGTTTTCAGAACCACCTCAGAGAAGATG TTTAAATCGCTGACAAAAGTCAACAAGGTGAAGCCTATAGGAGAGAACAATGAGAATGAACAAAG TTCTCGTCGGAATGAAGAAGGCTCTCACCCAAGTAATCAGTCTCAGCAAACCACAGCACAGGAAG AAAACAAAGGTGAAGAGAAATCTCTCAAAAACCAAGTCAACTCCAGTCACGTCTGAAGAGCCACAC ACCAACATACAAGACAAACTCTCCAAGAAAAATTCCTCTGGAGATCTGACCACAAACCCTGACCC TCAAAATGCAGCAGAACCAACTGGAACAGTGCCAGAGCAGAAGGAAATGGACCCCGGGAAAGAAG GTCCAAACAGCCCACAAAACAAACCGCCTGCAGCTCCTGTTATAAATGAGTATGCCGATGCCCAG CTACACAACCTGGTGAAAAGAATGCGTCAAAGAACAGCCCTCTACAAGAAAAAGTTGGTAGAGGG AGATCTCTCCTCACCCGAAGCCAGCCCACAAACTGCAAAGCCCACGGCTGTACCACCAGTAAAAG AAAGCGATGATAAGCCAACAGAACATTACTACAGGCTGTTGTGGTTCAAAGTCAAAAAGATGCCT TTAACAGAGTACTTAAAGCGAATTAAACTTCCAAACAGCATAGATTCATACACAGATCGACTCTA TCTCCTGTGGCTCTTGCTTGTCACTCTTGCCTATAACTGGAACTGCTGGTTTATACCACTGCGCC TCGTCTTCCCATATCAAACCGCAGACAACATACACTACTGGCTTATTGCGGACATCATATGTGAT ATCATCTACCTTTATGATATGCTATTTATCCAGCCCAGACTCCAGTTTGTAAGAGGAGGAGACAT AATAGTGGATTCAAATGAGCTAAGGAAACACTACAGGACTTCTACAAAATTTCAGTTGGATGTCG CATCAATAATACCATTTGATATTTGCTACCTCTTCTTTGGGTTTAATCCAATGTTTAGAGCAAAT AGGATGTTAAAGTACACTTCATTTTTTGAATTTAATCATCACCTAGAGTCTATAATGGACAAAGC ATATATCTACAGAGTTATTCGAACAACTGGATACTTGCTGTTTATTCTGCACATTAATGCCTGTG TTTATTACTGGGCTTCAAACTATGAAGGAATTGGCACTACTAGATGGGTGTATGATGGGGAAGGA AACGAGTATCTGAGATGTTATTATTGGGCAGTTCGAACTTTAATTACCATTGGTGGCCTTCCAGA $\tt CCAGTTTAATTGGTCAGATGAGAGATGTGATTGGAGCAGCTACAGCCAATCAGAACTACTTCCGC$ GCCTGCATGGATGACACCATTGCCTACATGAACAATTACTCCATTCCTAAACTTGTGCAAAAGCG AGTTCGGACTTGGTATGAATATACATGGGACTCTCAAAGAATGCTAGATGAGTCTGATTTGCTTA AGACCCTACCAACTACGGTCCAGTTAGCCCTCGCCATTGATGTGAACTTCAGCATCATCAGCAAA GTCGACTTGTTCAAGGGTTGTGATACACAGATGATTTATGACATGTTGCTAAGATTGAAATCCGT

TCTCTATTTGCCTGGTGACTTTGTCTGCAAAAAGGGAGAAATTTGGCAAGGAAATGTATATCATCA AGCATGGAGAAGTCCAAGTTCTTGGAGGCCCTGATGGTACTAAAGTTCTGGTTACTCTGAAAGCT GGGTCGGTGTTTGGAGAAATCAGCCTTCTAGCAGCAGGAGGAGGAAACCGTCGAACTGCCAATGT GGTGGCCCACGGGTTTGCCAATCTTTTAACTCTAGACAAAAAGACCCTCCAAGAAATTCTAGTGC ATTATCCAGATTCTGAAAGGATCCTCATGAAGAAAGCCAGAGTGCTTTTAAAGCAGAAGGCTAAG 5 ACCGCAGAAGCAACCCCTCCAAGAAAAGATCTTGCCCTCCTCTTCCCACCGAAAGAAGAAGACACC CAAACTGTTTAAAACTCTCCTAGGAGGCACAGGAAAAGCAAGTCTTGCAAGACTACTCAAATTGA GAAGATAAACAAAAAGAAAATGAAGATAAACAAAAAGAAAATGAAGATAAAGGAAAAAGAAAATGA AGATAAAGATAAAGGAAGAGAGCCAGAAGAGAAGCCACTGGACAGACCTGAATGTACAGCAAGTC 10 CTATTGCAGTGGAGGAAGAACCCCACTCAGTTAGAAGGACAGTTTTACCCAGAGGGACTTCTCGT CAATCACTCATTATCAGCATGGCTCCTTCTGCTGAGGGCGGAGAAGAGGTTCTTACTATTGAAGT CAAAGAAAAGGCTAAGCAATAAATGTTTGATTATCTTTAGATGTGATATAGCTAGTTCCCAAAGT GATTGTACCTAGGATTGTAACTTAAATTAACGAGGGGAAACGACATGCTGGGACCCTTGAGAAAC GAAAGGCAAATCCCTAGCTTAGTTTCTAGGACTTATCTGAGAGTGTGATTTCATGCAGTGGTAAT 15

SEO ID NO:3

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20 human CNG3B coding sequence

ATGTTTAAATCGCTGACAAAAGTCAACAAGGTGAAGCCTATAGGAGAGAACAATGAGAATGAACA AAGTTCTCGTCGGAATGAAGAAGGCTCTCACCCAAGTAATCAGTCTCAGCAAACCACAGCACAGG AAGAAAACAAAGGTGAAGAGAAATCTCTCAAAACCAAGTCAACTCCAGTCACGTCTGAAGAGCCA CACACCAACATACAAGACAAACTCTCCAAGAAAAATTCCTCTGGAGATCTGACCACAAACCCTGA CCCTCAAAATGCAGCAGAACCAACTGGAACAGTGCCAGAGCAGAAGGAAATGGACCCCGGGAAAG AAGGTCCAAACAGCCCACAAAACAAACCGCCTGCAGCTCCTGTTATAAATGAGTATGCCGATGCC CAGCTACACAACCTGGTGAAAAGAATGCGTCAAAGAACAGCCCTCTACAAGAAAAAGTTGGTAGA GGGAGATCTCTCCTCACCCGAAGCCAGCCCACAAACTGCAAAGCCCACGGCTGTACCACCAGTAA AAGAAAGCGATGATAAGCCAACAGAACATTACTACAGGCTGTTGTGGTTCAAAGTCAAAAAAAGATG CCTTTAACAGAGTACTTAAAGCGAATTAAACTTCCAAACAGCATAGATTCATACACAGATCGACT CTATCTCCTGTGGCTCTTGCCTGTCACTCTTGCCTATAACTGGAACTGCTGGTTTATACCACTGC GCCTCGTCTTCCCATATCAAACCGCAGACAACATACACTACTGGCTTATTGCGGACATCATATGT GATATCATCTACCTTTATGATATGCTATTTATCCAGCCCAGACTCCAGTTTGTAAGAGGAGGAGA CATAATAGTGGATTCAAATGAGCTAAGGAAACACTACAGGACTTCTACAAAATTTCAGTTGGATG TCGCATCAATAATACCATTTGATATTTGCTACCTCTTCTTTGGGTTTAATCCAATGTTTAGAGCA AATAGGATGTTAAAGTACACTTCATTTTTTGAATTTAATCATCACCTAGAGTCTATAATGGACAA AGCATATATCTACAGAGTTATTCGAACAACTGGATACTTGCTGTTTATTCTGCACATTAATGCCT GTGTTTATTACTGGGCTTCAAACTATGAAGGAATTGGCACTACTAGATGGGTGTATGATGGGGAA GGAAACGAGTATCTGAGATGTTATTATTGGGCAGTTCGAACTTTAATTACCATTGGTGGCCTTCC TCTCCAGTTTAATTGGTCAGATGAGAGATGTGATTGGAGCAGCTACAGCCAATCAGAACTACTTC CGCGCCTGCATGGATGACACCATTGCCTACATGAACAATTACTCCATTCCTAAACTTGTGCAAAA GCGAGTTCGGACTTGGTATGAATATACATGGGACTCTCAAAGAATGCTAGATGAGTCTGATTTGC TTAAGACCCTACCAACTACGGTCCAGTTAGCCCTCGCCATTGATGTGAACTTCAGCATCATCAGC AAAGTCGACTTGTTCAAGGGTTGTGATACACAGATGATTTATGACATGTTGCTAAGATTGAAATC CGTTCTCTATTTGCCTGGTGACTTTGTCTGCAAAAAGGGAGAAATTGGCAAGGAAATGTATATCA TCAAGCATGGAGAAGTCCAAGTTCTTGGAGGCCCTGATGGTACTAAAGTTCTGGTTACTCTGAAA GCTGGGTCGTGTTTGGAGAAATCAGCCTTCTAGCAGCAGGAGGAGAAACCGTCGAACTGCCAA TGTGGTGGCCCACGGGTTTGCCAATCTTTTAACTCTAGACAAAAAGACCCTCCAAGAAATTCTAG TGCATTATCCAGATTCTGAAAGGATCCTCATGAAGAAAGCCAGAGTGCTTTTAAAGCAGAAGGCT

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SEQ ID NO:4

Oligo 1 (sense strand primer)

TCTATCTCCTGTGGCTCTTGCTTGTC

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SEQ ID NO:5

Oligo 2 (antisense strand primer)

20 GAGTCTGGGCTGGATAAATAGCATATC

SEQ ID NO:6

Oligo 3 (sense strand primer)

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AGGAATTGGCACTACTAGATGGGTG

SEQ ID NO:7

30 Oligo 4 (antisense strand primer)

TTCATGAGGATCCTTTCAGAATCTGG

35 **SEQ ID NO:8**

Oligo 5 (sense strand primer)

GGAAACCGTCGAACTGCCAATGTGGT

5 **SEQ ID NO:9**

Oligo 6 (sense strand primer)

CGGGTTTGCCAATCTTTTAACTCTAGAC

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SEQ ID NO:10

Oligo 7 (antisense strand primer)

GTCCGCAATAAGCCAGTAGTGTATG

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SEQ ID NO:11

Oligo 8 (sense strand primer)

20 TGACAAGCTTCCGCCATGTTTAAATCGCTGACAAAAGTC

SEQ ID NO:12

Oligo 9 (antisense strand primer)

25

TGACGAATTCTCCCAGCATGTCGTTTCCCCTCGTTAA